

AMENDMENTS TO THE 2024 INTERNATIONAL PLUMBING CODE

4-5-2: AMENDMENTS TO THE 2024 INTERNATIONAL PLUMBING CODE

The following sections of the 2024 International Plumbing Code, adopted by reference as set forth in Section 4-5-1, are amended as follows:

CHAPTER 1 ADMINISTRATION

101.1 Title. These regulations shall be known as the Mesa Plumbing Code, hereinafter referred to as “this code.”

101.1.1 International Code References. Within the technical codes and the referenced codes and standards therein, specific references to the following International Codes shall be deemed and interpreted to mean the specific City of Mesa Codes as listed herein:

1. International Building Code (IBC) is redefined as Mesa Building Code (MBC)
2. International Fire Code (IFC) is redefined as Mesa Fire Code (MFC)
3. International Residential Code (IRC) is redefined as Mesa Residential Code (MRC)
4. International Mechanical Code (IMC) is redefined as Mesa Mechanical Code (MMC)
5. International Fuel Gas Code (IFGC) is redefined as Mesa Fuel Gas Code (MFGC)
6. International Existing Building Code (IEBC) is redefined as Mesa Existing Building Code (MEBC)
7. International Plumbing Code (IPC) is redefined as Mesa Plumbing Code (MPC)
8. International Swimming Pool and Spa Code (ISPSC) is redefined as Mesa Swimming Pool and Spa Code (MSPSC)
9. International Energy Conservation Code (IECC) is redefined as Mesa Energy Conservation Code (MECC).

Sections 101.4 through 115.4 are deleted in their entirety. Any reference to Sections 101.4 through 115.4 shall comply with the Mesa Administrative Code (Mesa City Code, Title 4, Chapter 1).

CHAPTER 3 GENERAL REGULATIONS

305.4.1 Sewer Depth. Building sewers that connect to private sewage disposal systems shall be installed not less than 12 inches (304.8 mm) below finished grade at the point of septic tank connection. Building sewers shall be installed not less than 12 inches (304.8 mm) below grade.

CHAPTER 4 FIXTURES, FAUCETS AND FIXTURE FITTINGS

Table 403.1 Minimum Number of Required Plumbing Fixtures. Footnote E is amended to read as follows:

Footnote e. For businesses and mercantile classifications with an occupant load of 100 or fewer, a service sink shall not be required.

403.2 Separate Facilities. Exception 2 is amended to read as follows:

Exceptions:

2. Separate toilet facilities shall not be required in structures or tenant spaces with a total *occupant load*, including both employees and customers, of 25 or fewer.

Section 410.2 Small Occupancies. Drinking fountains shall not be required for an occupant load of 50 or fewer.

CHAPTER 6 WATER SUPPLY AND DISTRIBUTION

TABLE 604.4 Maximum Flow Rates and Consumption for Plumbing Fixtures and Fixture Fitting

PLUMBING FIXTURE OR FIXTURE FITTING	MAXIMUM FLOW RATE OR QUANTITY
Lavatory, private	1.5 gpm at 60 psi
Lavatory, public (metering)	0.25 gallon per metering cycle
Lavatory, public (other than metering)	0.5 gpm at 60 psi
Shower head ^{a,c}	2.0 gpm at 80 psi
Sink faucet	1.5 gpm at 60 psi
Urinal	0.5 gallon per flushing cycle
Water closet	1.28 gallons per flushing cycle

For SI: 1 gallon = 3.785 L, 1 gallon per minute = 3.785 L/m, 1 pound per square inch = 6.895 kPa.

- a. A hand-held shower spray is a shower head.
- b. Consumption tolerances shall be determined from referenced standards.
- c. Shower heads shall comply with all requirements for high-efficiency showerheads in ASME A112.18.1-2020/CSA B125.1.

TABLE 608.1 Application of Backflow Preventers is partially amended to delete the following portions:

DEVICE	DEGREE OF HAZARD ^a	APPLICATION	APPLICABLE STANDARDS
Backflow prevention assemblies:			
Double check detector fire protection backflow prevention assemblies	Low hazard	Backpressure or backsiphonage Sizes 1"–16"	ASSE 1048
Reduced pressure detector fire protection backflow prevention assemblies	High or low hazard	Backsiphonage or backpressure (automatic sprinkler systems)	ASSE 1047

Section 608.17.4 Connections to Automatic Fire Sprinkler Systems and Standpipe Systems. The potable water supply to automatic fire sprinkler and standpipe systems shall be protected against backflow, in accordance with Mesa Standard Details.

Exceptions:

1. Where systems are installed as a portion of the water distribution system in accordance with the requirements of this code and are not provided with a fire department connection, isolation of the water supply system shall not be required.
2. Isolation of the water distribution system is not required for deluge, preaction or dry pipe systems.

CHAPTER 7 SANITARY DRAINAGE

Section 701.2 Connection to Sewer Required. Sanitary drainage piping from plumbing fixtures in buildings and sanitary drainage piping systems from premises shall be connected to a public sewer. Where a public sewer is not available, the sanitary drainage piping and systems shall be connected to a private sewage disposal system in compliance with state or local requirements. Every building in which plumbing fixtures are installed and all premises having drainage piping shall be connected to a public sewer. The public sewer may be considered as not being available only when so determined by the Maricopa County Environmental Services Department (MCESD), by authority granted by delegation from the Arizona Department of Environmental Quality (ADEQ) as stated in the Arizona Administrative Code §R18-9-A309.

Exception:

Sanitary drainage piping and systems that convey only the discharge from bathtubs, showers, lavatories, clothes washers and laundry trays shall not be required to connect to a public sewer or to a private sewage disposal system provided that the piping or systems are connected to a system in accordance with Chapters 13 or 14.

CHAPTER 10 TRAPS, INTERCEPTORS AND SEPARATORS

Section 1003.2 Approval. The size, type and location of each interceptor and of each separator shall be designed and installed in accordance with the manufacturer's instructions and the requirements of Wastes that do not require treatment, or separation shall not be discharged into any interceptor or separator.

CHAPTER 11 STORM DRAINAGE

Section 1106.1 General. The size of the vertical conductors and leaders, building storm drains, building storm sewers, and any horizontal branches of such drains or sewers shall be based on an hourly rainfall rate of 3 inches per hour.